



Grain Transportation Report

A weekly publication of the Transportation and Marketing Programs/Transportation Services Branch www.ams.usda.gov/tmdtsb/grain

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The next release is Apr. 6 '06

Total Transportation Cost Increases for U.S.–Japan Corn and Soybeans. The total cost of shipping corn and soybeans from Minneapolis to Japan increased nearly 19 percent during the 4th quarter. The cost of transporting grain to Japan through the Gulf by truck, rail, barge, and ocean vessel increased between 13 and 27 percent, by individual mode, during the quarter. Although the farm value for both commodities decreased during the quarter, the decrease was offset by the more substantial increase in the total transportation cost for Gulf shipments of corn. Total landed cost, when shipped through the Gulf, increased by 6 percent for corn and decreased by 1 percent for soybeans. The total landed cost combines total transportation cost and farm value.

The total transportation cost for corn shipments through the Pacific Northwest (PNW) remained relatively unchanged. The total soybean shipment cost increased by 5 percent. Total landed costs through the PNW decreased by 4 percent for corn and 5 percent for soybeans.

Table 1 -- Quarterly modal transportation cost comparison for corn from Minneapolis to Japan

		Gulf			PNW	
	3rd Qtr '05	4th Qtr '05	Percent Change	3rd Qtr '05	4th Qtr 05	Percent Change
	-\$/met	ric ton -	%	-\$/me	tric ton	%
Truck	8.90	10.06	13.03	8.90	10.06	13.03
Barge	28.88	36.71	27.11			
Rail-Corn				40.12	36.67	-8.60
Ocean	38.38	43.69	13.84	22.39	24.82	10.85
Total Transportation	76.16	90.46	18.78	71.40	71.55	0.21
Farm Value	72.17	66.13	-8.37	72.17	66.13	-8.37
Total Landed Cost	148.32	156.59	5.58	143.57	137.68	-4.10
Transportation % of	•				•	
Landed Cost	51.35	57.77		49.73	51.97	

Table 2 -- Quarterly modal transporatation cost comparison for soybeans from Minneapolis to Japan

						_
	3rd Qtr '05	4th Qtr '05	Percent Change	3rd Qtr '05	4th Qtr '05	Percent Change
	-\$/met	ric ton-	%	-\$/met	tric ton-	%
Truck	8.90	10.06	13.03	8.90	10.06	13.03
Barge	28.88	36.71	27.11			
Rail-soybeans				39.79	39.79	0.00
Ocean	38.38	43.69	13.84	22.39	24.82	10.85
Total Transportation	76.16	90.46	18.78	71.08	74.67	5.05
Farm Value	224.26	207.11	-7.65	224.26	207.11	-7.65
Total Landed Cost	300.42	297.57	-0.95	295.34	281.78	-4.59
Transportation % of						
Landed Cost	25.35	30.40		24.07	26.50	

Barge rates to - the Gulf increased by 27 percent during the fourth quarter. The usual 4th quarter rate increases caused by the harvest and its increased demand for covered barges exacerbated this year by the effects of Hurricanes Katrina and Rita during the 3rd quarter. These weather-related circumstances led to barge repositioning

problems in the northern loading areas, slowed barge turnaround times, and caused labor shortages in the Gulf. Along with several other factors, this resulted in barge inefficiencies (*see GTR*, *Feb. 23*, 2006) and record high covered barge rates. Barge rates remained higher than normal through the beginning of 2006.

Ocean freight rates for Gulf-to-Japan grain shipments rebounded by nearly 14 percent, regaining almost half the 30 percent drop that occurred in the 3rd quarter, 2005. Fourth quarter rates, however, remained 29 percent lower than 4th quarter 2004. Ocean rates through the PNW to Japan increased by nearly 11 percent in the 4th quarter 2005, but still remained 40 percent below the same period in 2004. The 4th quarter increase may be attributed to an increase in break-bulk shipments and increased mineral demand in China (*see GTR*, *Feb. 16*, 2006). In addition, Panamax activity is returning to normal in the Gulf.

Truck rates for both corn and soybeans originating in the North Central region increased by 13 percent during the 4th quarter. This 4th quarter increase was partly due to decreased truck availability and higher diesel fuel costs, as was the increase in the 3rd quarter. Karl, Hacker@usda.gov

Grain Transportation Indicators

Table 1--Grain transport cost indicators*

	Truck	Rail**	Barge	C	Ocean
Week ending				Gulf	Pacific
03/29/06	172	-33	179	162	191
Compared with last week	↓	↓	↓	†	↓

*Indicator: Base year 2000 = 100; Weekly updates include truck = diesel (\$/gallon); rail = nearby secondary rail market (\$/car);

barge = spot Illinois River basis (index = percent of tariff rate); and ocean = routes to Japan (\$/metric ton)

Source: Transportation & Marketing Programs/AMS/USDA

Table 2--Market update: U.S. origins to export position price spreads (\$/bushel)

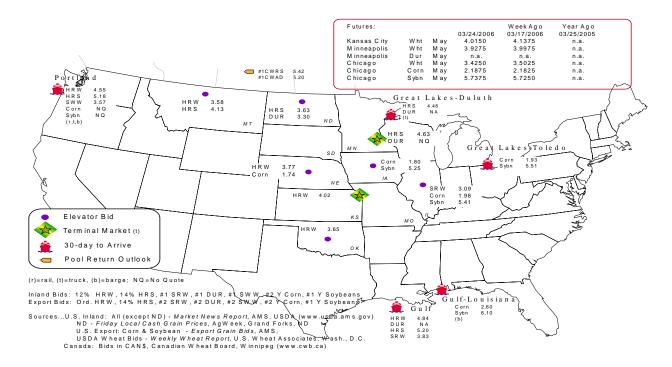
Commodity	Origindestination	3/24/2006	3/17/2006
Corn	ILGulf	-0.62	-0.63
Corn	NEGulf	-0.86	-0.84
Soybean	IAGulf	-0.85	-0.85
HRW	KSGulf	-0.82	-0.88
HRS	NDPortland	-1.55	-1.48

Note: nq = no quote

Source: Transportation & Marketing Programs/AMS/USDA

The **grain bid summary** illustrates the market relationships for commodities. Positive and negative adjustments in differential between terminal and futures markets, and the relationship to inland market points, are indicators of changes in fundamental market supply and demand. The map may be used to monitor market and time differentials.

Figure 1 **Grain bid summary**



^{**}The rail indicator is not an index. It is the difference between the nearby secondary rail market bid for this week and the average bid for year 2000 (+) 100.

Rail Transportation

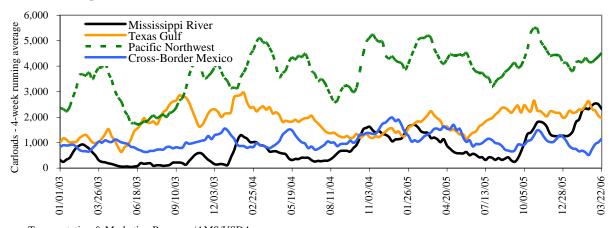
Table 3--Rail deliveries to port (carloads)*

			Cross-Border	Pacific	Atlantic &	
Week ending	Mississippi Gulf***	Texas Gulf	Mexico****	Northwest	East Gulf	Total
3/22/2006 ^p	1,806	2,106	1,163	4,461	594	10,130
$3/15/2006^{r}$	2,222	1,916	1,037	5,068	519	10,762
2006 YTD	25,789	27,098	9,649	51,308	6,443	120,287
2005 YTD	17,024	21,878	15,718	55,537	5,886	116,043
2006 as % of 2005	5 151	124	61	92	109	104
Total 2005**	50,677	99,864	60,879	223,328	15,752	450,500
Total 2004	43,102	92,073	59,102	209,625	10,986	414,888

^(*) Incomplete Data; as of 9/22/04, Cross-Border movements included; (**) Includes 53rd week; (***) Mississippi Gulf data back to January, 2004 from several new sources has been added; (****) Cross-border Mexico data for 2004 and 2005 has been amended to reflect amendments submitted by our sources. YTD= year-to-date; p=preliminary data; r = revised data

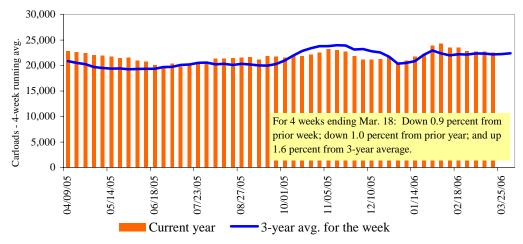
Railroads originate approximately 40 percent of U.S. grain shipments. Trends in these loadings are indicative of market conditions and expectations.

Figure 2 Rail deliveries to port



Source: Transportation & Marketing Programs/AMS/USDA

Figure 3 **Total weekly U.S. grain car loadings for Class I railroads**



Source: Association of American Railroads

Table 4--Class I rail carrier grain car bulletin (grain carloads originated)

	E	East		West		West		West		U.S. total	Canada	
Week ending	CSXT NS BNSF KCS UP	CN	CP									
03/18/06	3,080	3,343	9,579	415	5,819	22,236	3,943	5,417				
This week last year	3,405	3,628	8,873	685	6,649	23,240	4,583	2,855				
2006 YTD	35,411	35,723	110,161	5,891	68,291	255,477	52,387	49,770				
2005 YTD	34,610	37,919	106,936	7,546	65,655	252,666	50,057	43,379				
Last 4 weeks as % of 2005	105.8	90.3	100.7	69.6	101.1	99.0	101.5	126.5				
2006 as % of 2005	102.3	94.2	103.0	78.1	104.0	101.1	104.7	114.7				
Total 2005	152,060	167,465	476,033	27,459	307,170	1,130,187	225,817	215,145				

Source: Association of American Railroads (www.aar.org); YTD = year-to-date

Table 5--Rail car auction offerings*, week ending 03/25/06 (\$/car)**

Delivery for:	May-06	Jun-06	Jul-06
BNSF ¹			
COT/N. grain	no bids	\$0	\$59
COT/S. grain	no bids	no bids	\$11
UP^2			
GCAS/Region 1	no bids	no offer	no offer
GCAS/Region 2	no bids	no offer	no offer

^{*}Auction offerings are for single-car and unit train shipments only.

N includes: ID, MN, MT, ND, OR, SD, WA, WI, WY, and Manitoba, Canada.

S includes: CO, IA, IL, KS, MO, NE, OK, TX, NM, AZ, CA, UT, and NV.

 $Region\ 1\ includes:\ AR,\ IL,\ LA,\ MO,\ NM,\ OK,\ TX,\ WI,\ and\ Duluth,\ MN.$

Region 2 includes: CO, IA, KS, MN, NE, WY, and Kansas City and St. Joseph, MO.

Source: Transportation & Marketing Programs/AMS/USDA

Rail service may be ordered directly from the railroad via **auction** for guaranteed service, or via tariff for nonguaranteed service, or through the secondary railcar market.

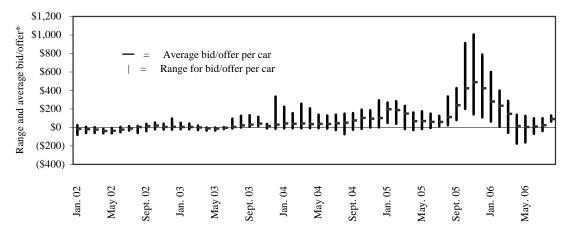
^{**}Average premium/discount to tariff, last auction

¹BNSF - COT = Certificate of Transportation

²UP - GCAS = Grain Car Allocation System

The **secondary rail market** information reflects trade values for service that was originally purchased from the railroad carrier as some form of guaranteed freight. The **auction and secondary rail** values are indicators of rail service quality and demand/supply.

Figure 4
Secondary rail car market, delivery month-year



*up to 6 months of trading

Source: Transportation & Marketing Programs/AMS/USDA

Average bid/offer is the simple average of all the weekly bids/offers over the entire period (up to 6 months) for guaranteed railcars that are traded for delivery in a particular month.

Range for bid/offer shows the range of average weekly bids/offers over the entire period (up to 6 months) for guaranteed railcars that are traded for delivery in a particular month.

Table 6--Weekly secondary rail car market, week ending 03/25/06 (\$/car)*

	Delivery period					
	May-06	Jun-06	Jul-06	Aug-06		
BNSF-GF	-\$88	-\$8	\$38	\$85		
Change from last week	-\$26	\$5	\$15	\$4		
UP-Pool	-\$169	-\$46	\$28	\$129		
Change from last week	-\$6	\$4	\$6	\$0		

^{*}Average premium/discount to tariff, \$/car-last week

Note: Bids listed are market INDICATORS only & are NOT guaranteed prices,

 $Missing\ value = no\ bid\ quoted;\ GF = guaranteed\ freight;\ Pool = guaranteed\ pool$

Sources: Transportation and Marketing Programs/AMS/USDA

Data from Atwood/ConAgra, Harvest States Co-op, James B. Joiner Co., Tradewest Brokerage Co.

Table 7--Tariff rail rates for unit and shuttle train shipments*

Effective date:		-			
3/6/2006	Origin Region	Destination Region	Rate/car	Rate/metric ton	Rate/bushel**
<u>Unit train*</u>					
Wheat	Chicago, IL	Albany, NY	\$1,861	\$20.51	\$0.56
	Kansas City, MO	Galveston, TX	\$2,020	\$22.27	\$0.61
	South Central, KS	Galveston, TX	\$2,450	\$27.01	\$0.74
	Minneapolis, MN	Houston, TX	\$2,420	\$26.68	\$0.73
	St. Louis, MO	Houston, TX	\$2,360	\$26.01	\$0.71
	South Central, ND	Houston, TX	\$4,149	\$45.73	\$1.24
	Minneapolis, MN	Portland, OR	\$3,963	\$43.68	\$1.19
	South Central, ND	Portland, OR	\$3,963	\$43.68	\$1.19
	Northwest, KS	Portland, OR	\$4,490	\$49.49	\$1.35
	Chicago, IL	Richmond, VA	\$2,161	\$23.82	\$0.65
Corn	Chicago, IL	Baton Rouge, LA	\$2,610	\$28.77	\$0.73
	Council Bluffs, IA	Baton Rouge, LA	\$2,470	\$27.23	\$0.69
	Kansas City, MO	Dalhart, TX	\$2,365	\$26.07	\$0.66
	Minneapolis, MN	Portland, OR	\$3,130	\$34.50	\$0.88
	Evansville, IN	Raleigh, NC	\$1,961	\$21.62	\$0.55
	Columbus, OH	Raleigh, NC	\$1,850	\$20.39	\$0.52
	Council Bluffs, IA	Stockton, CA	\$3,606	\$39.75	\$1.01
Soybeans	Chicago, IL	Baton Rouge, LA	\$2,655	\$29.27	\$0.80
	Council Bluffs, IA	Baton Rouge, LA	\$2,515	\$27.72	\$0.75
	Minneapolis, MN	Portland, OR	\$3,610	\$39.79	\$1.08
	Evansville, IN	Raleigh, NC	\$1,961	\$21.62	\$0.59
	Chicago, IL	Raleigh, NC	\$2,561	\$28.23	\$0.77
Shuttle Train*					
Wheat	St. Louis, MO	Houston, TX	\$1,820	\$20.06	\$0.55
	Minneapolis, MN	Portland, OR	\$3,763	\$41.48	\$1.13
Corn	Fremont, NE	Houston, TX	\$2,124	\$23.41	\$0.59
	Minneapolis, MN	Portland, OR	\$3,024	\$33.33	\$0.85
Soybeans	Council Bluffs, IA	Houston, TX	\$2,412	\$26.59	\$0.72
-	Minneapolis, MN	Portland, OR	\$3,170	\$34.94	\$0.95

^{*}A unit train refers to shipments of at least 52 cars. Shuttle train rates are available for qualified shipments of more than 100 cars that meet railroad efficiency requirements.

Sources: www.bnsf.com, www.cpr.ca, www.csx.com, www.uprr.com

^{**}Approximate load per car = 100 short tons: corn 56 lbs./bu., wheat & soybeans 60 lbs./bu.

Table 8--Tariff rail rates for U.S. bulk grain shipments to Mexico, 2005

Effective date: 3/06/06

Commodity	Origin State	Border crossing region	Train size	Rate ¹	Rate/metric ton	Rate/bushel**
Wheat	KS	Brownsville, TX	Shuttle	\$2,851	\$29.13	\$0.79
	ND	Eagle Pass, TX	Unit	\$4,086	\$41.75	\$1.14
	OK	El Paso, TX	Shuttle	\$2,235	\$22.84	\$0.62
	OK	El Paso, TX	Unit	\$2,432	\$24.85	\$0.68
	AR	Laredo, TX	Unit	\$2,383	\$24.35	\$0.66
	IL	Laredo, TX	Unit	\$3,188	\$32.57	\$0.89
	MT	Laredo, TX	Shuttle	\$3,980	\$40.67	\$1.11
	TX	Laredo, TX	Shuttle	\$2,165	\$22.12	\$0.60
	MO	Laredo, TX	Shuttle	\$2,731	\$27.90	\$0.76
	WI	Laredo, TX	Unit	\$3,405	\$34.79	\$0.95
Corn	NE	Brownsville, TX	Shuttle	\$3,543	\$36.20	\$0.92
	NE	Brownsville, TX	Unit	\$3623*	\$37.02	\$0.94
	IA	Eagle Pass, TX	Unit	\$3,773	\$38.55	\$0.98
	MO	Eagle Pass, TX	Shuttle	\$3364*	\$34.37	\$0.87
	NE	Eagle Pass, TX	Shuttle	\$3764*	\$38.46	\$0.98
	IA	Laredo, TX	Shuttle	\$3,696	\$37.76	\$0.96
Soybean	IA	Brownsville, TX	Shuttle	\$3,318	\$33.90	\$0.92
	MN	Brownsville, TX	Shuttle	\$3,614	\$36.93	\$1.00
	NE	Brownsville, TX	Shuttle	\$3,127	\$31.95	\$0.87
	NE	Eagle Pass, TX	Shuttle	\$3,203	\$32.73	\$0.89
	IA	Laredo, TX	Unit	\$3,357	\$34.30	\$0.93

A unit train refers to shipments of at least 52 cars. Shuttle train are available for qualified shipments of more than 100 cars that meet railroad efficiency requirements.

¹Rates are based upon published tariff rates for high-capacity rail cars.

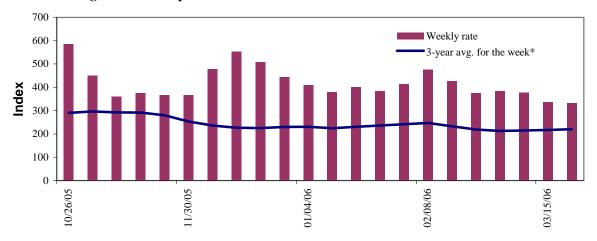
^{*}High-capacity rate not available, rate estimated using published low-capacity tariff rate x 1.08

^{**}Approximate load per car = 97.87 metric tons: Corn 56 lbs/bu, Wheat & Soybeans 60 lbs/bu Sources: www.bnsf.com, www.uprr.com

Barge Transportation

Figure 5

Illinois River barge rate index - quotes



Note: Index = percent of tariff rate; *4-week moving average Source: Transportation & Marketing Programs/AMS/USDA

The **Illinois River barge rate index** averaged 183 percent of the **benchmark tariff rates** between 1999 and 2001, based on weekly market quotes. The **index**, along with **rate quotes** and **futures market** bids are indicators of grain transport supply and demand.

Table 9--Barge rate quotes: southbound barge freight

Location	3/22/2006	3/15/2006	April '06	June '06
Twin Cities	n/a	n/a	385	381
Mid-Mississippi	358	375	343	343
Illinois River	333	337	328	339
St. Louis	301	307	283	297
Lower Ohio	296	313	280	296
Cairo-Memphis	242	271	241	266

Index = percent of tariff, based on 1976 tariff benchmark rate Source: Transportation & Marketing Programs/AMS/USDA

Benchmark tariff rates

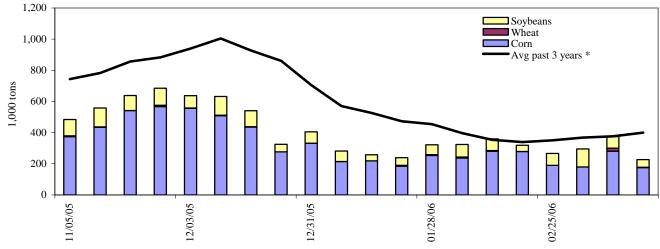
Calculating barge rate per ton: (Index * 1976 tariff benchmark rate per ton)/100

Select applicable index from market quotes included in tables on this page. The 1976 benchmark rates per ton are provided in map (see figure 6).

Note: The Illinois barge rate is for Beardstown, IL, La Grange Lock & Dam (L&D 8).



Figure 7 **Barge movements on the Mississippi River (Locks 27 - Granite City, IL)**



* 4-week moving average

Source: Transportation & Marketing Programs/AMS/USDA

Table 10--Barge grain movements (1,000 tons)

Week ending 3/18/2006	Corn	Wheat	Soybean	Other	Total
Mississippi River					
Rock Island, IL (L15)	21	0	5	0	26
Winfield, MO (L25)	28	2	9	0	38
Alton, IL (L26)	172	2	58	0	231
Granite City, IL (L27)	175	2	50	0	227
Illinois River (L8)	104	0	29	2	135
Ohio River (L52)	138	0	43	0	181
Arkansas River (L1)	1	27	23	1	52
2006 YTD	4,206	275	1,638	214	6,333
2005 YTD	3,728	327	2,017	184	6,256
2006 as % of 2005 YTD	113	84	81	116	101
Total 2005	23,761	1,620	7,276	731	33,388

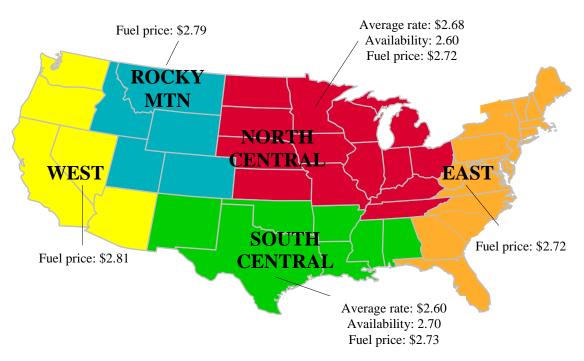
 $YTD\ (year-to-date)\ and\ calendar\ year\ total\ includes\ Miss/27,\ Ohio/52,\ and\ Ark/1;\ "Other"\ refers\ to\ oats,\ barley,\ sorghum,\ and\ rye.$

 $Source:\ U.S.\ Army\ Corp\ of\ Engineers\ (www.mvr.usace.army.mil/mvrimi/omni/webrpts/default.asp)$

Note: Total may not add exactly, due to rounding

Truck Transportation

Figure 8
U.S. grain truck market advisory, 4th quarter 2005*



*Average rate per loaded mile, based on truck rates for trips of 25, 100, and 200 miles

Note: Fuel prices are a quarterly average (unit per gallon)

 $Fuel\ price\ data\ source:\ Energy\ Information\ Administration,\ U.S.\ Department\ of\ Energy,\ \underline{www.eia.doe.gov}$

Table 11--U.S. grain truck market overview, 4th quarter 2005

Table 11U.S. grain tru	ick market ov	erview, 4 g	uarter 2005			
Region	25 miles	100 miles	200 miles	Truck availability	Truck activity	Future truck activity
				Rating com	pared to same quart	er last year
	:	Rate per mile		1=Very easy	1=M	uch lower
		Rate per fille		to	to	
				5=Very difficult	5=Much higher	
National average ²	3.31	2.46	2.26	2.6	2.9	2.9
North Central region	3.23	2.51	2.29	2.6	3.0	3.0
Rocky Mountain	4.58	2.35	1.95	2.8	3.0	3.0
South Central	3.00	2.42	2.39	2.7	2.5	2.7
West	n/a	n/a	n/a	2.0	3.5	3.0

¹Rates are based on trucks with 80,000 lb gross vehicle weight limit

Source: Transportation and Marketing Programs/AMS/USDA

²National average includes: AL, AR, CO, IA, ID, IL, IN, KS, LA, MN, MO, MS, MT, ND, NE, OH, OK, OR, SD, TX, WA, WI, and WY.

The **weekly diesel price** provides a proxy for trends in U.S. truck rates. Diesel fuel is a significant expense for truck grain movements, accounting for 37 percent of the estimated variable cost.

Table 12--Retail on-highway diesel prices*, week ending 3/27/06 (US\$/gallon)

			Chang	e from
Region	Location	Price	Week ago	Year ago
I	East Coast	2.586	-0.020	0.338
	New England	2.700	-0.002	0.326
	Central Atlantic	2.681	-0.016	0.321
	Lower Atlantic	2.536	-0.022	0.347
II	Midwest ¹	2.523	-0.010	0.320
III	Gulf Coast ²	2.528	-0.024	0.346
IV	Rocky Mountain	2.601	-0.007	0.275
V	West Coast	2.698	-0.018	0.215
	California	2.727	-0.011	0.215
Total	U.S.	2.565	-0.016	0.316

^{*}Diesel fuel prices include all taxes.

Source: Energy Information Administration/U.S. Department of Energy (www.eia.doe.gov)

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¹Same as North Central ²Same as South Central

Grain Exports

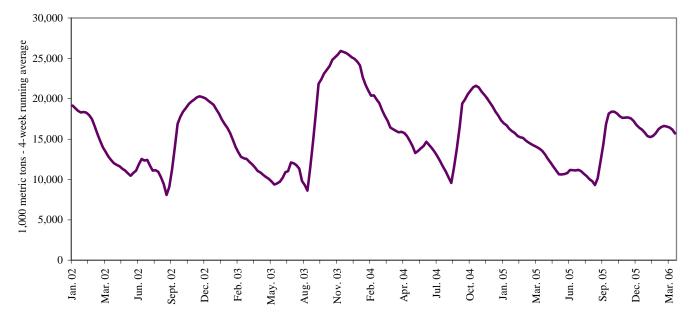
Table 13--U.S. export balances (1,000 metric tons)

			W	heat			Corn	Soybeans	Total
Week ending 1/	HRW	SRW	HRS	SWW	DUR	All wheat			
3/16/2006	1,169	288	1,094	737	224	3,512	9,141	2,368	15,021
This week year ago	1,576	241	1,343	499	110	3,769	7,291	3,046	14,106
Cumulative exports-crop year 2/									
2005/06 YTD	8,949	1,677	6,143	3,425	607	20,802	26,426	18,353	65,581
2004/05 YTD	7,728	2,946	6,366	4,106	556	21,702	24,894	23,694	70,290
2005/06 as % of 2004/05	116	57	96	83	109	96	106	77	93
2004/05 Total	9,407	3,217	8,083	4,773	686	26,117	44,953	29,878	100,948
2003/04 Total	12,697	3,785	6,928	4,895	1,053	29,359	47,704	24,108	101,171

Note: YTD = year-to-date. Crop year: wheat = 6/01-5/31, corn & soybeans = 9/01-8/31, 1/= Current unshipped export sales to date

Source: Foreign Agricultural Service/USDA (www.fas.usda.gov)

Figure 9 U.S. grain, unshipped export balance, including wheat, corn, and soybean sales



Source: Foreign Agricultural Service/USDA (www.fas.usda.gov)

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^{2/} = Shipped export sales to date

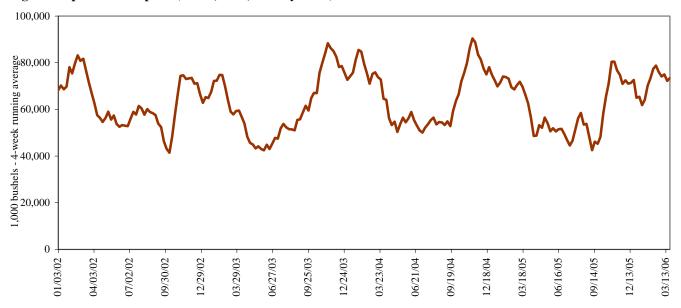
Table 14--Select U.S. port regions - grain inspections for export (1,000 metric tons)

	P	acific Reg	ion	M	ississippi (Gulf	ŗ	Texas Gu	lf	P	ort Region tota	al
Week ending	Wheat	Corn	Soybeans	Wheat	Corn	Soybeans	Wheat	Corn	Soybeans	Pacific	Mississippi	Texas
03/23/06	263	215	170	47	525	397	94	76	0	647	968	171
2006 YTD	2,719	1,969	1,748	1,081	8,113	5,179	1,910	429	15	6,436	14,373	2,353
2005 YTD	2,636	2,035	2,041	1,346	6,333	6,045	1,501	209	6	6,712	13,724	1,716
2006 as % of 2005	103	97	86	80	128	86	127	205	260	96	105	137
2005 Total *	10,801	10,104	6,225	4,643	27,596	14,793	7,743	810	36	27,130	47,032	8,589

Source: Grain Inspection, Packers and Stockyards Aministration/USDA (www.gipsa.usda.gov); YTD: year-to-date; *includes weekly revisions

The United States exports approximately one-quarter of the grain it produces. On average, it includes nearly 45 percent of U.S.-grown wheat, 35 percent of U.S.-grown soybeans, and 20 percent of the U.S.-grown corn. Approximately 55 percent of these U.S. export grain shipments departed through the Mississippi Gulf region in 2004.

Figure 10 U.S. grain inspected for export (wheat, corn, and soybeans)



 $Source: Grain\ Inspection,\ Packers\ and\ Stockyards\ Administration/USDA\ (www.gipsa.usda.gov)$

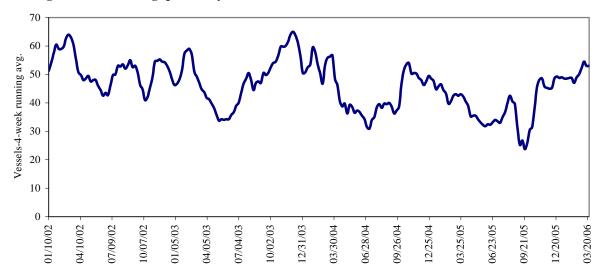
Ocean Transportation

Table 15--Weekly port region grain ocean vessel activity (number of vessels)

		Gulf		Pacific Northwest	Vancouver B.C.
		Loaded	Due next		
Date	In port	7-days	10-days	In port	In port
3/23/2006	18	47	52	7	6
3/16/2006	25	50	61	12	6
2005 range	(1157)	(1056)	(1876)	(216)	(017)
2005 avg.	27	39	53	9	7

Source: Transportation & Marketing Programs/AMS/USDA

Figure 11 **Gulf Port grain vessel loading (past 7 days)**



Source: Transportation & Marketing Programs/AMS/USDA

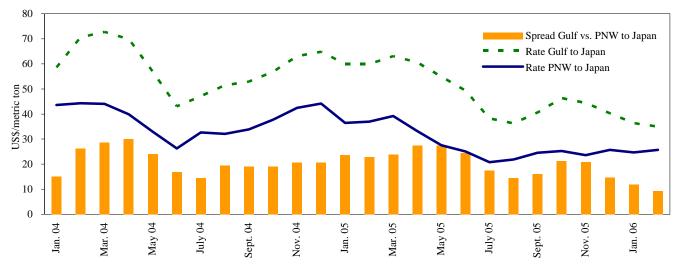
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Table 16--Quarterly ocean freight rates (average rates & percentage changes) (US\$/metric ton)

Countries/ regions	2005 4 th qtr	2004 4 th qtr	Percent change	Countries/ regions	2005 4 th qtr	2004 4 th qtr	Percent change
Gulf to	_			Pacific NW to			
Japan	46.75	60.83	-23	Japan			
China		56.35		Argentina/Brazil to			
N. Africa	31.75			N. Africa	42.67		
Med. Sea	31.75			Meditteranean	40.20		

Source: Maritime Research, Inc. (www.maritime-research.com)

Figure 12 **Grain vessel rates, U.S. to Japan**



Source: Baltic Exchange (www.balticexchange.com)

Table 17--Ocean freight rates for selected shipments, week ending 3/25/06

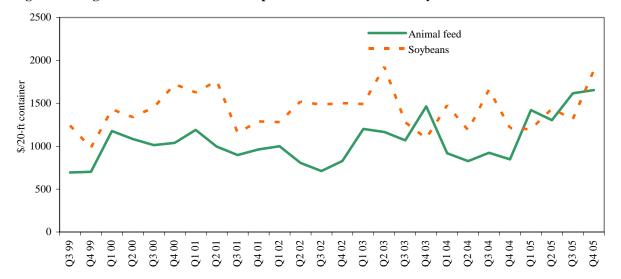
Export region	Import region	Grain	Month	Volume loads (metric tons)	Freight rate (\$/metric ton)
U.S. Gulf	China	Hvy Grain	Feb 20/28	55,000	31.00
U.S. Gulf	N. China	Hvy Grain	Feb 20/28	55,000	29.75
United Kingdom	Thailand	Wheat	Feb 25/Mar 10	42,000	21.50
PNW	Pakistan*	Soybeans	Feb 16/27	10,000	59.45
Brazil	N. China	Hvy Grain	Feb 10/18	58,000	27.50
Brazil	N. France	Grains	Mar 12/20	25,000	26.00
River Plate	Poland	Grains	Feb 21/26	30,000	36.00

Rates shown are for metric ton (2,204.62 lbs. = 1 metric ton), F.O.B., except where otherwise indicates; op = option

Source: Maritime Research Inc. (www.maritime-research.com)

^{*75} percent of food aid from the United States is required to be shipped on U.S. flag vessels. The vessels are limited in availability resulting in higher rates. In addition, destinations receiving food aid generally lack adequate port unloading facilities, requiring the vessel to remain in port for a longer duration than normal.

Figure 13
Weighted average rates¹ for containerized shipments of animal feed and soybeans to selected Asian countries



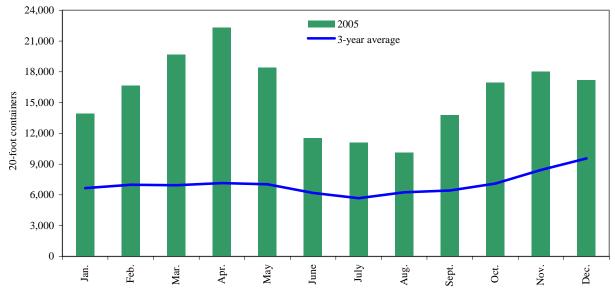
¹Animal Feed: Busan-Korea (12%), Kaohsiung-Taiwan (34%), Tokyo-Japan (35%), Hong Kong (13%), Bangkok-Thailand (6%) and soybeans: Busan-Korea (1%), Keelung-Taiwan (89%), Tokyo-Japan (8%), Bangkok-Thailand (1%), Hong Kong (1%) Quarter 4, 2005.

Source: Ocean Rate Bulletin, Transportation & Marketing Programs/AMS/USDA

Container ocean freight rates – average rate per twenty-foot equivalent unit (TEU) weighted by shipping line market share and trade route.

During 2004, containers were used to transport 2 percent of total U.S. grain exported, and 3 percent of total U.S. grain exported to Asia.

 ${\bf Figure~14} \\ {\bf Monthly~shipments~of~containerized~grain~to~Asia~for~2005~compared~with~a~3-year~average} \\$

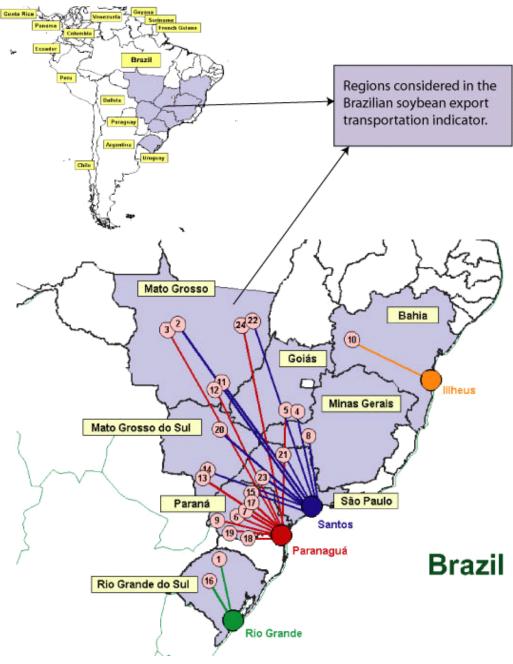


Source: Port Import Export Reporting Service (PIERS), Journal of Commerce

Note: PIERS data is available with a lag of approximately 40 days

Brazil Transportation

Figure 15
Routes and Regions considered in the Brazilian soybean export transportation indicator¹

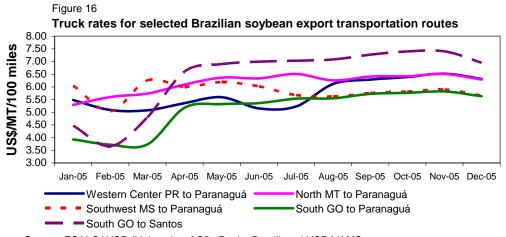


¹Regions comprised 84 percent of Brazilian soybean production, 2003 Source: ESALQ/USP (University of São Paulo, Brazil) and USDA/AMS

Table 18--Truck rates for selected Brazilian soybean export transportation routes, 4th quarter 2005

	Origin ¹	•	Distance	<u> </u>	Freight price
Route #	(reference city)	Destination	(miles) ²	Weight(%) ³	(per 100 miles) ⁴
1	Northwest RS ⁵ (Cruz Alta)	Rio Grande	288	16.6	4.58
2	North MT(Sorriso)	Santos	1190	10.1	6.94
3	North MT(Sorriso)	Paranaguá	1262	9.5	6.41
4	South GO(Rio Verde)	Santos	587	7.0	7.25
5	South GO(Rio Verde)	Paranaguá	726	5.6	5.74
6	North Center PR(Londrina)	Paranaguá	268	4.4	7.93
7	Western Center PR(Mamborê)	Paranaguá	311	3.9	6.41
8	Triangle MG(Uberaba)	Santos	339	3.8	9.98
9	West PR(Assis Chateaubriand)	Paranaguá	377	3.7	6.34
10	West Extreme BA(São Desidério)	Ilhéus	544	3.6	7.87
11	Southeast MT(Primavera do Leste)	Santos	901	3.6	6.97
12	Southeast MT(Primavera do Leste)	Paranaguá	975	3.3	6.22
13	Southwest MS(Maracaju)	Paranaguá	612	3.1	5.79
14	Southwest MS(Maracaju)	Santos	652	2.9	6.24
15	West PR(Assis Chateaubriand)	Santos	550	2.5	5.85
16	Western Center RS(Tupanciretã)	Rio Grande	273	2.4	5.74
17	Southwest PR(Chopinzinho)	Paranaguá	291	2.3	9.17
18	Eastern Center PR(Castro)	Paranaguá	130	2.3	9.96
19	South Center PR(Guarapuava)	Paranaguá	204	2.1	8.67
20	North Center MS(São Gabriel do Oeste)	Santos	720	2.0	5.62
21	Ribeirão Preto SP(Guairá)	Santos	314	1.5	8.27
22	Northeast MT(Canarana)	Santos	950	1.4	7.87
23	Assis SP(Palmital)	Santos	285	1.2	7.85
24	Northeast MT(Canarana)	Paranaguá	1075	1.2	6.96
	Average		626	100	6.64

Although each origin region comprises several cities, the main city is considered as a reference to establish the freight price



Source: ESALQ/ USP (University of São Paulo, Brazil) and USDA/AMS

²Distance from the main city of the considered region to the mentioned ports

³The weight is directly proportional to the amount of production in each region

⁴US\$ per metric ton (average monthly exchange rate from "Banco Central do Brasil" was used to convert Brazilian reais to the U.S. dollar)

⁵RS = Rio Grande Do Sul, MT= Mato Grosso, GO = Goiás, PR = Paraná, MG = Minas Gerais, BA = Bahia, MS = Mato Grosso Do Sul, SP = São Paulo Source: ESALQ/USP (University of São Paulo, Brazil) and USDA/AMS

Table 19--Monthly Brazilian soybean export truck transportation cost index

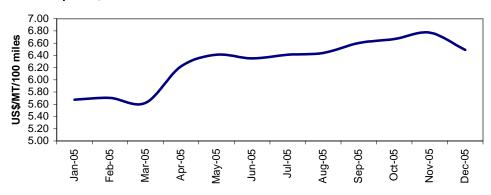
Month	Freight price*	Index variation (%)	Index value
Month	(per 100 miles)	(Base: prior month)	(Base: Jan. $05 = 100$)
Jan. 05	5.67		100.00
Feb. 05	5.71	0.5	100.54
Mar. 05	5.62	-1.5	99.08
Apr. 05	6.22	10.6	109.61
May 05	6.41	3.1	112.96
Jun. 05	6.35	-0.9	111.90
Jul. 05	6.41	1.0	112.99
Aug. 05	6.44	0.4	113.46
Sep. 05	6.60	2.5	116.36
Oct. 05	6.67	1.0	117.52
Nov. 05	6.77	1.5	119.33
Dec. 05	6.49	-4.2	114.34

^{*}weighted average and quoted in US\$ per metric ton

Source: ESALQ/USP (University of São Paulo, Brazil) and USDA/AMS

Figure 17

Brazilian soybean export truck transportation weighted average prices, 2005



Source: ESALQ/USP (University of São Paulo, Brazil) and USDA/AMS

Table 20--Quarterly ocean freight rates for shipping soybeans from selected Brazilian ports to Hamburg, Germany (US\$/metric ton)*

Ports	2005 1st gtr	2005 2nd gtr	2005 3rd qtr	2005 4th gtr	
Santos	45.53	45.84	44.54	56.73	
Paranagua	44.64	44.84**	43.54	55.73	
Rio Grande	44.20	44.39	43.04	55.23	

^{*}correspond to the average actual values negotiated between shippers and carriers and weighted according to the magnitude of the shipped volumes Source: Sistema de Informações de Fretes, SIFRECA, ESALQ/USP (University of São Paulo, Brazil)

^{**}Revised figure

Contacts and Links

Contact Information

Coordinator Surajudeen (Deen) Olowolayemo Ethel Mitchell	surajudeen.olowolayemo@usda.gov ethel.mitchell@usda.gov	(202) 690-1328 (202) 720-1378
Grain Transportation Indicators Surajudeen (Deen) Olowolayemo	surajudeen.olowolayemo@usda.gov	(202) 690-1328
Rail Marvin Prater Johnny Hill	marvin.prater@usda.gov johnny.hill@usda.gov	(202) 690-6290 (202) 720-4211
Barge Transportation Karl Hacker Nicholas Marathon	karl.hacker@usda.gov nick.marathon@usda.gov	(202) 690-0152 (202) 690-0331
Truck Transportation Karl Hacker	karl.hacker@usda.gov	(202) 690-0152
Grain Exports Johnny Hill	johnny.hill@usda.gov	(202) 720-4211
Ocean Transportation Surajudeen (Deen) Olowolayemo (Freight rates and vessels) April Taylor (Container rates)	surajudeen.olowolayemo@usda.gov april.taylor@usda.gov	(202) 690-1328 (202) 690-1326

Subscription Information: To subscribe to the GTR for a weekly email copy, please contact Deen Olowolayemo at surajudeen.olowolayemo@usda.gov or 202-690-1328 (1303) (printed copies are also available upon request).

Related Websites

Agricultural Container Indicators
Ocean Rate Bulletin

http://www.ams.usda.gov/tmd2/agci/ http://www.ams.usda.gov/tmd/Ocean/index.asp

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